



A.D. 1870, 8th JULY. N° 1908.

SPECIFICATION

OF

ALEXANDER PRINCE.

LITTERS.

LONDON:

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Price 4d.

1871.



A.D. 1870, 6th JULY. N° 1908.

Litters.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by Alexander Prince at the Office of the Commissioners of Patents, with his Petition, on the 6th July 1870.—A communication from abroad by Dr. Carl Heinrich Rudolf Stanelli, residing at Moscow, in the Empire of Russia.

5 I, ALEXANDER PRINCE, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the County of Middlesex, do hereby declare the nature of the said Invention for “IMPROVEMENTS IN SOLDIERS’ LITTERS, AND IN TRUCKS OR AMBULANCES CONNECTED THEREWITH,” a communication to me from abroad by Dr. Carl Heinrich Rudolf Stanelli, resident at Moscow, in the Empire
10 of Russia, to be as follows:—

This Invention relates to certain improvements in the construction of litters for the conveyance of sick or wounded soldiers, and in ambulances or trucks to be used therewith, the object being to render such litters more easily portable, and capable of being folded up in a small compass,
15 and adjusted in various positions to suit the comfort of the patient.

The litter is constructed in three planes or divisions joined together so as to be inclined to accomodate the human body in its threefold flexure,

Prince's Improvements in Soldiers' Litters, &c.

thus enabling the patient to sit or lie with the hip and knee joints duly and naturally bent, instead of being stretched out at full length horizontally as is the case in all other contrivances for such purposes.

The litter consists of a board or plane to receive the back, another as a seat and for the thighs, and a third for the legs. The back is fixed at right angles with the seat, and the leg board again forms a right angle therewith. The seat and back, however, are so connected that the latter may shut down flat upon the former. The board for the lower limbs is connected with the seat in such manner as to be capable of being moved upwards to lie in the same plane with the latter and form one surface with it, but in the opposite direction or downwards it is only capable of being brought into right angles with the seat. When extended in the same plane the seat and leg board are together as long as the back, so that when the back is shut down upon them the top of the same coincides with the bottom of the leg board. The litter rests on a thick bar fixed under the seat at its junction with the back by means of two pins, which like trunnions of a gun play in sockets made in two rests, forming a bed for the whole; the litter therefore rests in this bed, and by means of the pins may be inclined to any angle required, and thus will form a chair, couch, or litter.

To fix the apparatus at the required angle two moveable vertical bars are fixed to the back of the litter bed, one on each side, and connected to the back board. At each side and near each end of the bed a ring is fixed, above which four others are fastened, two on each side of the couch itself, one immediately over that at the back of the bed and the other over that in front. These upper rings are fastened to the sides of the back and seat so that by aid of a rope or strap passed through the rings in the bed and then through those in the frame or boards of the litter the apparatus can be fixed and adjusted as well as with the side vertical bars. And in this case the latter can be employed to stretch out and maintain the position of the boards. The upper rings are used for the purposes of transport, and the apparatus can be slung as a hammock by passing ropes through all the rings. In the centre of the back part of the seat is an oval aperture closed by a trap or valve opening downwards and so constructed as to be opened and closed at pleasure by the person occupying the seat. At the lower end of the leg board are two ring bolts for the extension of the lower limbs if required, and at the back part of the leg board a drawer is constructed for bandages and other

Prince's Improvements in Soldiers' Litters, &c.

necessaries, and in front a tablet for the name of the patient. When not in use the apparatus can be shut or folded up close. The ambulance or truck consists of two wheels and an axle on which two parallel bars are supported by bearings through the bars on which the apparatus hangs 5 from the rings on the back and seat, one apparatus being suspended to the bars on each side of the axle.

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Printers to the Queen's most Excellent Majesty. 1871.

